



Center of Excellence for
Collaborative
Innovation



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Fostering Government Innovation

- Agencies are experimenting with new models of collaboration and innovation
 - Finding their way through implementation independently
- Current scenario: Multiple Agencies independently working to implement new Collaborative Innovation models that affect every aspect of Government processes
 - Funding
 - Acquisition
 - Contracts
 - Reporting



- **NASA, with support from OSTP, established a Center of Excellence for Collaborative Innovation (CoECI) to serve as a convening point for all agencies**
- **Officially formed 1 November 2011**
 - **Organized to develop best practices for innovation and other collaborative techniques**
 - **Located in the Human Exploration and Operations Mission Directorate (HEOMD) but serving NASA and the U.S. Government as a whole**
 - **NASA Civil Servants and Support contractors**
 - **Platform providers**



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CoECI Personnel

- **CoECI Director**
Jason Crusan, NASA HQ
- **CoECI Deputy Director**
Jeffrey R. Davis, MD, NASA JSC
- **CoECI Manager**
Lynn Buquo, NASA JSC
- **CoECI Program Specialist**
Carolyn A. Woolverton, NASA JSC
- **CoECI External Agreement Manager**
Karl Becker, Stellar Solutions NASA HQ
- **CoECI Strategy and Communications**
Elizabeth E. Richard, Wyle JSC
- **COECI Innovation Coordinator**
Cynthia M. Rando, CHFP, Wyle JSC
- **COECI Innovation Coordinator**
Kathryn E. Keeton, PhD, Wyle JSC
- **COECI Academic Advisor**
Karim Lakhani, Harvard
Business School
- **Office of Science Technology Policy**
Cristin Dorgelo
- **General Services Administration**
Karen Trebon, Challenge.gov
Tammi Marcoullier, Challenge.gov

Key Functions



- **Educate and Share Best Practices**
 - Identify and champion innovative solutions by working collaboratively with other Government Agencies
 - Communicate best practices and successful innovation methodologies
- **Implementation Guidance**
 - Create repository for collaborative innovation best practice through use of multiple Community of Practices
 - Leverage existing collaborative innovation infrastructure to provide pilot tournaments
- **Measure Impact**
 - Measure and analyze Agency-focused performance



Educate and Share Best Practices

- **Objectives:**
 - Advise Government Agencies on innovation methodologies to build core competency and generate interest in distributed innovation
 - Solicit participation and contribution of agencies experienced with various innovation methodologies
- **Implementation activities:**
 - Disseminate case studies, best practices, and implementation guidance
 - In collaboration with GSA, Conduct Collaborative Innovation Community of Practice (CICoP) to:
 - Guide application of collaborative innovation techniques
 - Interpret legal and contractual guidance by providing precedent and case studies
 - Advance the state-of-the-art of collaborative innovation,
 - Formulate a body of knowledge



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Implementation Guidance



- **Objective:**
 - Select, prepare, and prioritize usage of infrastructure to conduct pilot projects for a participating Agency.
 - Develop repository for best practices, including case studies, model contracts, and acquisition strategy
- **Implementation activities:**
 - Develop Infrastructure including necessary web pages, social media sites, code repositories, etc
 - Establish mechanisms for selection and prioritization of challenges and tournaments
 - Extend Platform provider capability to conduct Pilot projects to Agencies through Interagency Agreements
 - NASA Tournament Lab
 - IDIQ and GSA Contracts
 - Challenge.gov

<http://www.nasa.gov/offices/COECI/>

Measure Impact



- **Objectives:**
 - Analyze and report data from experiments to inform the theory and practice of collaborative innovation
 - Advise the CoECI on optimal design characteristics of a sustained use model of distributed innovation
- **Implementation activities:**
 - Determine what is of value to the Government agencies participating in the CoECI activities
 - Determine what can be measured, and how to measure the qualitative benefits of these tools
 - Assess cost, time expended, and technical strength of the solutions and collaborative partnerships

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Builds on Successful Experience

- Centennial Challenges
- NASA Innovation Pavilion Pilots
- NASA Tournament Lab
- Challenge.gov



Challenge.gov
Government Challenges, Your Solutions

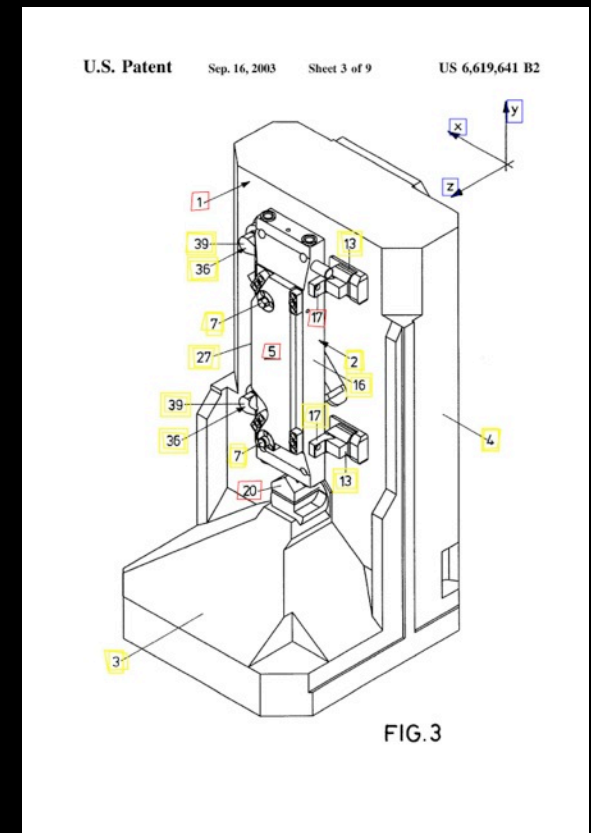


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Current CoECI Projects

USPTO Patent Labeling

- The Patent and Trademark Office has a huge volume of patents that must be reviewed
- Knowing how some labels on a drawing relate to the patent text is important
- Solution will make possible hyperlinks that will increase productivity, and remove irritating extra work scanning
- Varied fonts makes it difficult to distinguish between the patent pieces
- Original image processing contest success of 70% of the theoretical ideal answer, USPTO now running a follow up to improve upon the 70%. Total \$60k prize money





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CMS Provider Screening

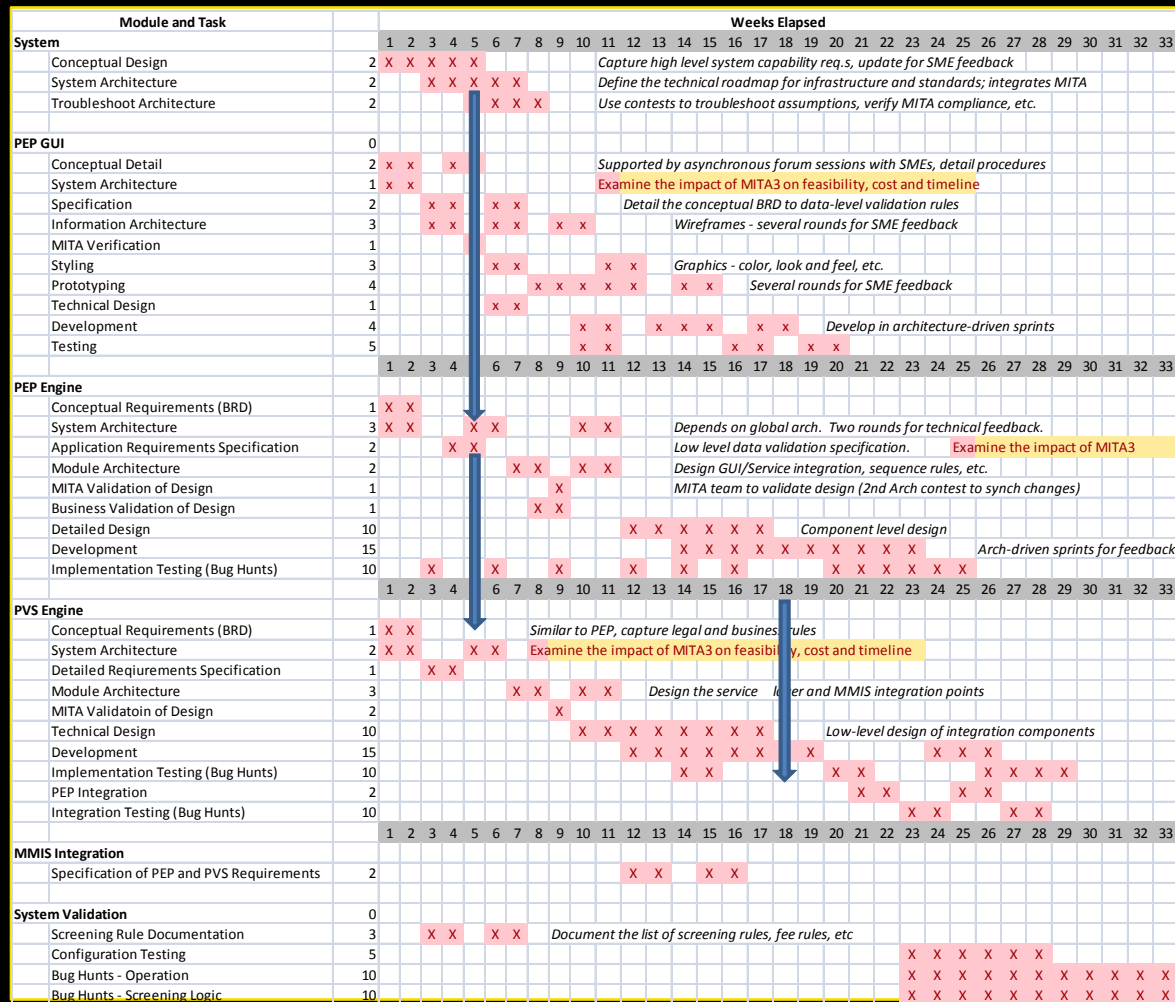


- **Produce a shared services solution for States to leverage in verifying Medicaid provider eligibility, in order to reduce costs related to provider fraud.**
 - **Reduce time and cost to implement new solutions in state programs.**
 - **Inform the use of a shared services model as a best practice for States to adopt as they update and modernize their systems.**
- **Multi-stakeholder Environment**
 - **CMS and CMCS leadership**
 - **State of Minnesota (primary state stakeholder)**
 - **Additional states during the lifetime of the project**
- **Integrated Enterprise Software Solution**
 - **Built to a custom client-driven architecture (MITA)**
 - **Integrates with legacy systems (MMIS – COBOL)**
 - **Complies with US ADA Section 508 (Accessibility)**
 - **Complies with MITA 3.0 Architecture Framework**



CMS Activities

Challenge #1



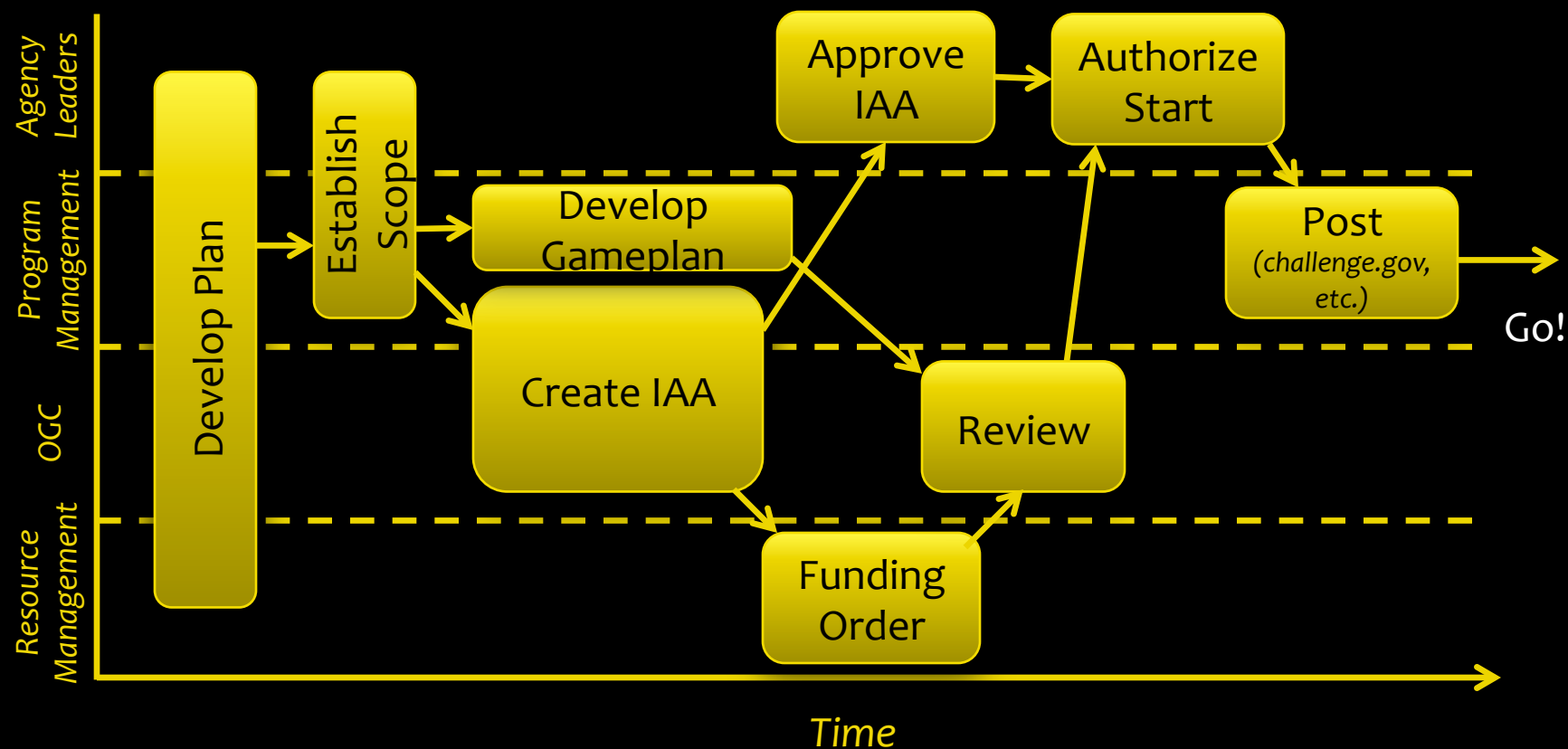
- Covers all phases of software development
 - Conceptual design through V&V
- ~135 Separate tournaments
- 33 weeks
- Overlapping contests (up to 9 parallel activities)



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Engagement Path

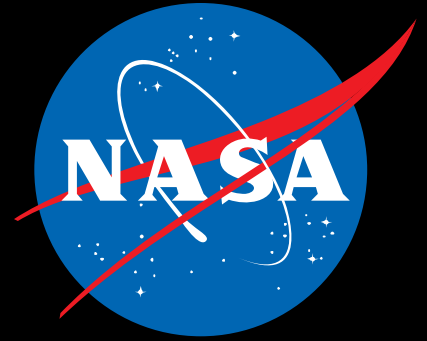
Agency perspective



Next Steps



- **Establish proposed Agency Problem Set**
 - Determine needs and desired result
 - Establish Period of Performance
 - NASA provides contest scope and cost estimate
- **Interagency Agreement**
 - NASA will create draft
 - Agency reviews and approves



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